

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011719\
 Data File : VF061446.D
 Acq On : 17 Jan 2019 15:55
 Operator : VA/AP
 Sample : K1157-14RE
 Misc : 5.08g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WC-07-011519RE

Quant Time: Jan 18 03:19:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	163198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	274089	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	198833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	51575	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	119656	59.39	ug/l	0.00
Spiked Amount			Recovery	=	118.78%	
35) Dibromofluoromethane	4.09	113	139658	64.57	ug/l	0.00
Spiked Amount			Recovery	=	129.14%	
50) Toluene-d8	7.54	98	309555	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
62) 4-Bromofluorobenzene	11.39	95	97942	35.38	ug/l	0.00
Spiked Amount			Recovery	=	70.76%	

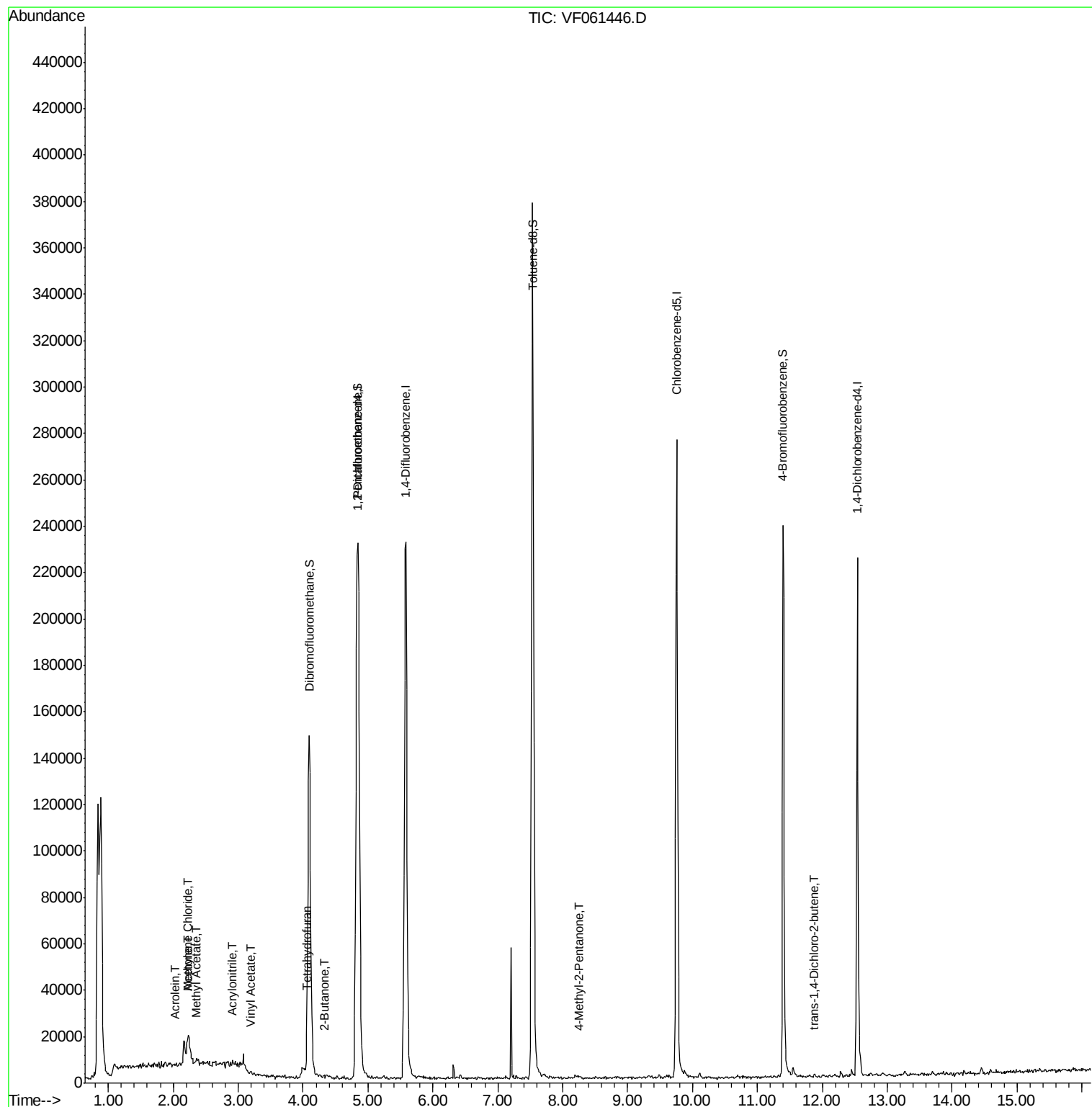
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.02	56	536	17.332	ug/l #	9
14) Allyl chloride	2.07	41	559	Below Cal	#	59
15) Acrylonitrile	2.92	53	271	1.240	ug/l #	37
16) Acetone	2.23	43	4362	10.791	ug/l #	87
18) Methyl Acetate	2.34	43	3208	4.002	ug/l #	77
20) Methylene Chloride	2.23	84	6443	3.045	ug/l	89
23) Vinyl Acetate	3.19	43	750	3.520	ug/l #	78
25) 2-Butanone	4.33	43	1139	1.694	ug/l #	57
29) Tetrahydrofuran	4.05	42	395	1.365	ug/l #	67
49) 1,4-Dioxane	7.03	88	70	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.25	43	1367	1.166	ug/l #	69
81) trans-1,4-Dichloro-2-buten	11.88	75	235	1.007	ug/l #	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

Instrument :

MSVOA_F

ClientSampleId :

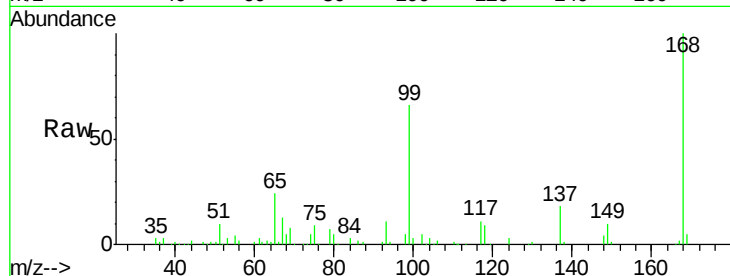
WC-07-011519RE

Tot Ion:168 Resp: 163198

Ion Ratio Lower Upper

168 100

99 66.4 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

50000

40000

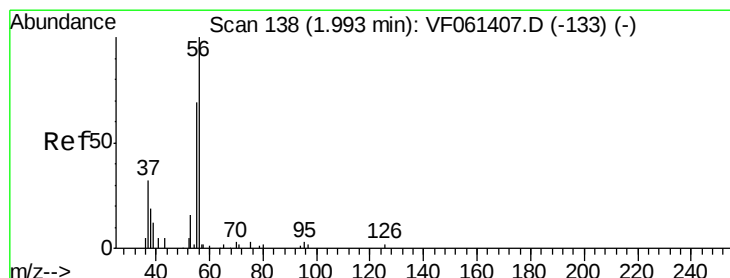
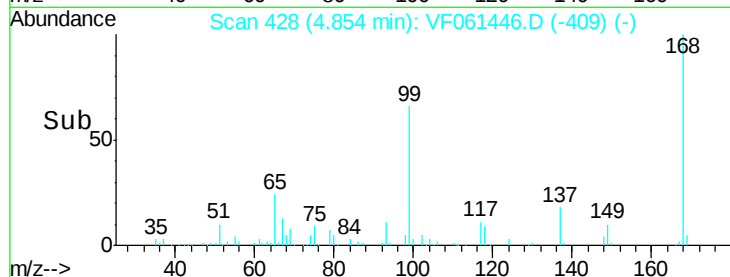
30000

20000

10000

0

Time-->



#13

Acrolein

Concen: 17.332 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.03 min

Lab File: VF061446.D

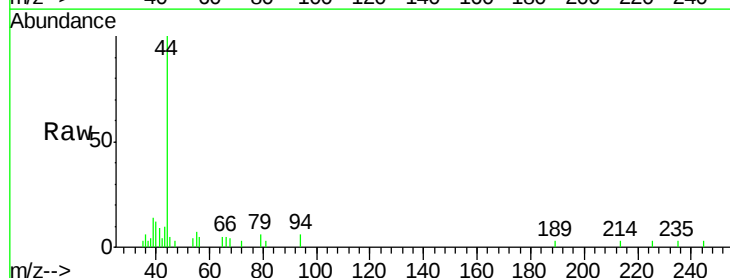
Acq: 17 Jan 2019 15:55

Tgt Ion: 56 Resp: 536

Ion Ratio Lower Upper

56 100

55 147.6 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

400

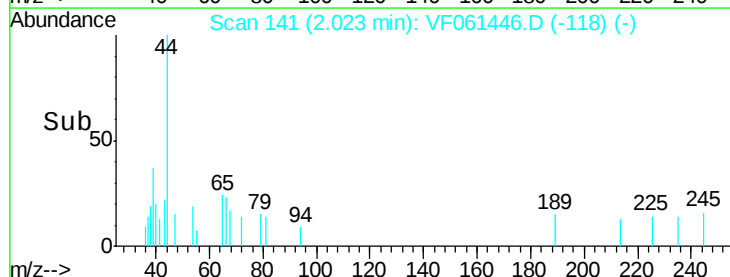
300

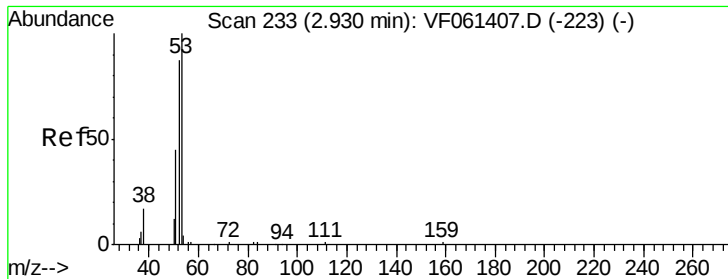
200

100

0

Time-->





#15

Acrylonitrile

Concen: 1.240 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.01 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

Instrument :

MSVOA_F

ClientSampleId :

WC-07-011519RE

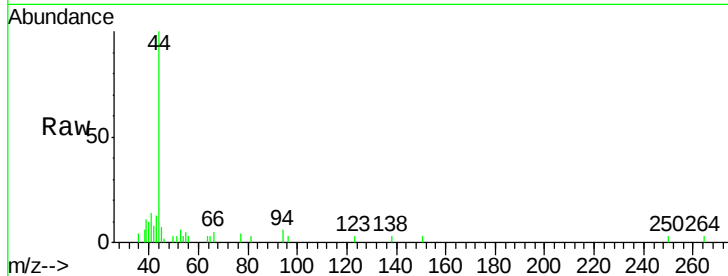
Tot Ion: 53 Resp: 271

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

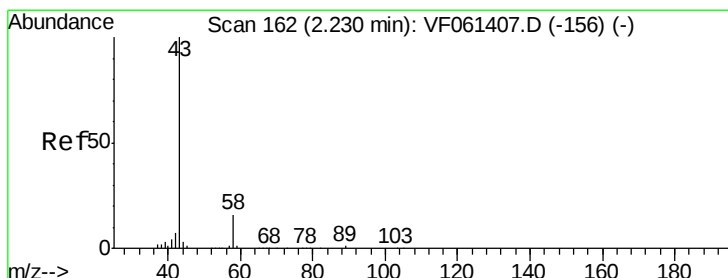
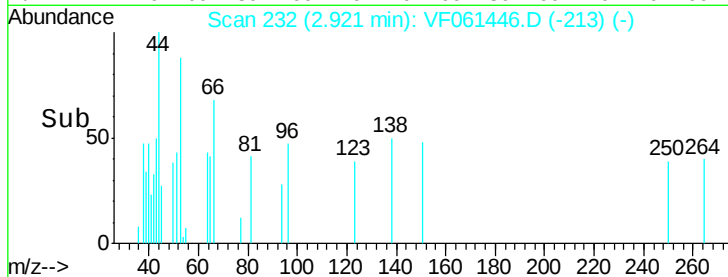
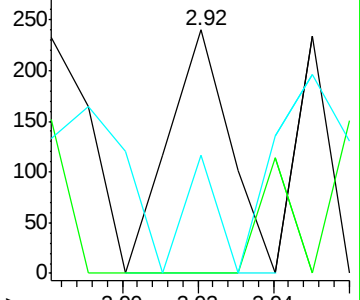
51 48.8 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 10.791 ug/l

RT: 2.23 min Scan# 162

Delta R.T. 0.00 min

Lab File: VF061446.D

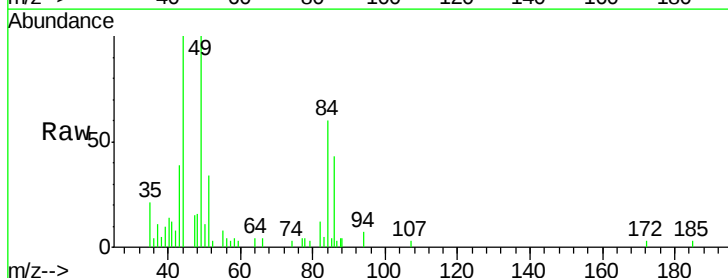
Acq: 17 Jan 2019 15:55

Tgt Ion: 43 Resp: 4362

Ion Ratio Lower Upper

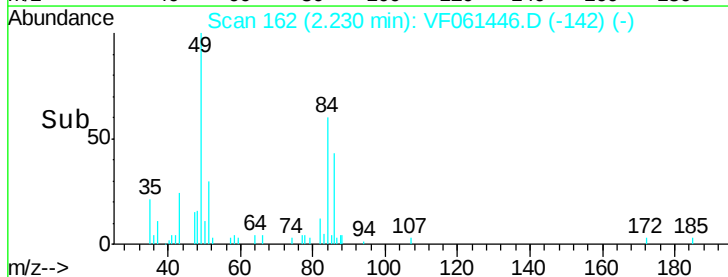
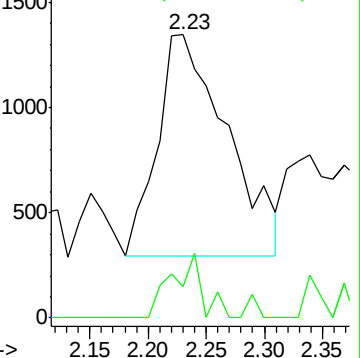
43 100

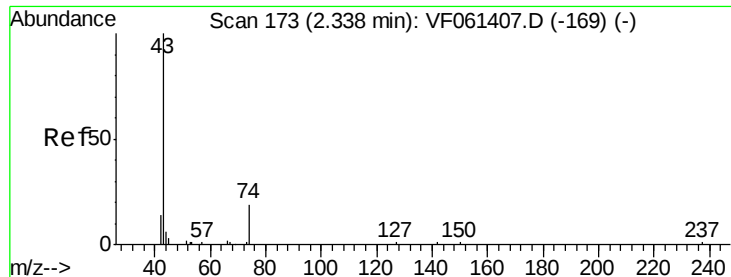
58 10.9 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

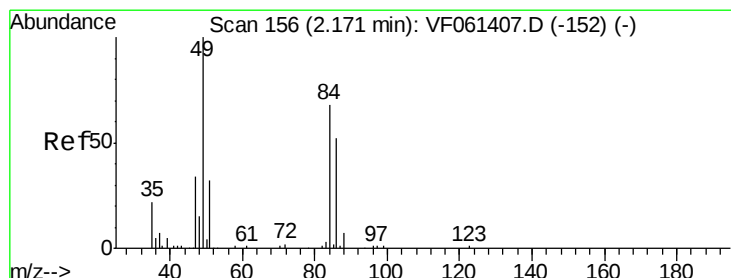
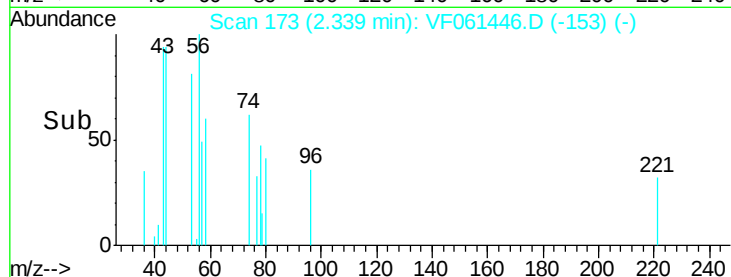
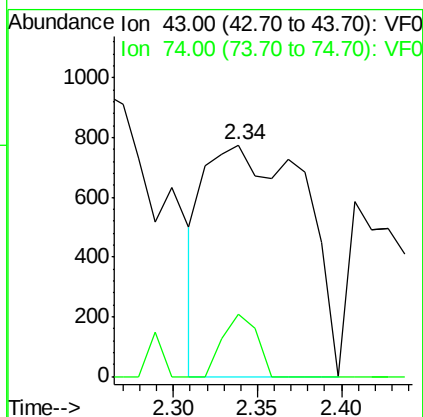
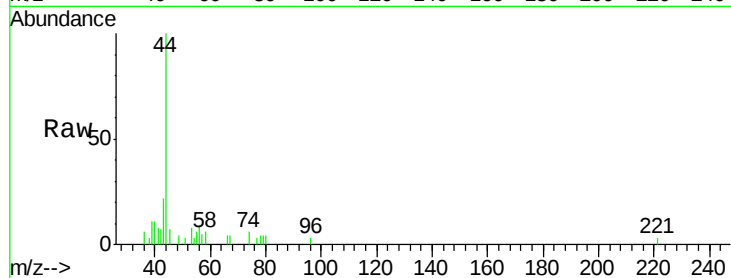




#18
Methyl Acetate
Concen: 4.002 ug/l
RT: 2.34 min Scan# 173
Delta R.T. 0.00 min
Lab File: VF061446.D
Acq: 17 Jan 2019 15:55

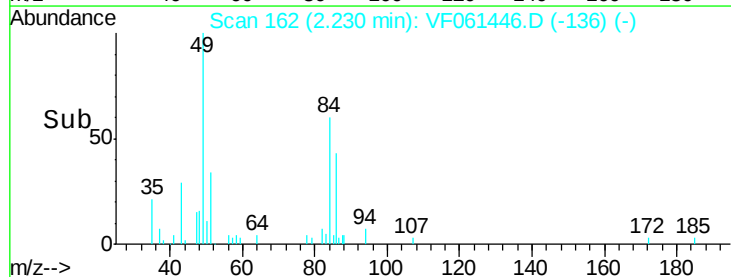
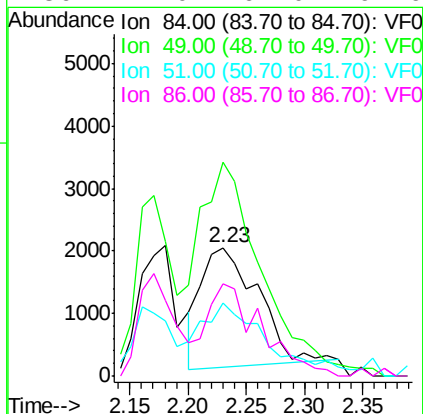
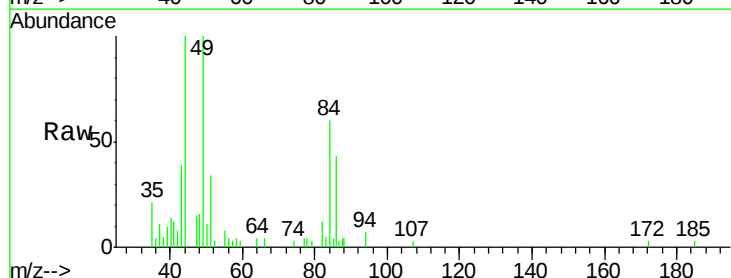
Instrument :
MSVOA_F
ClientSampleId :
WC-07-011519RE

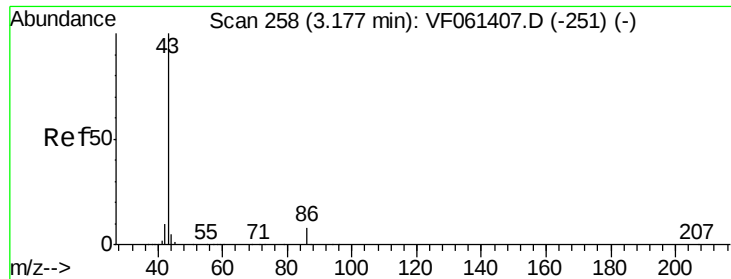
Tot Ion: 43 Resp: 3208
Ion Ratio Lower Upper
43 100
74 26.8 13.4 20.0#



#20
Methylene Chloride
Concen: 3.045 ug/l
RT: 2.23 min Scan# 162
Delta R.T. 0.06 min
Lab File: VF061446.D
Acq: 17 Jan 2019 15:55

Tgt Ion: 84 Resp: 6443
Ion Ratio Lower Upper
84 100
49 166.6 120.0 180.0
51 56.9 38.6 58.0
86 72.0 61.0 91.6





#23

Vinyl Acetate

Concen: 3.520 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

Instrument :

MSVOA_F

ClientSampleId :

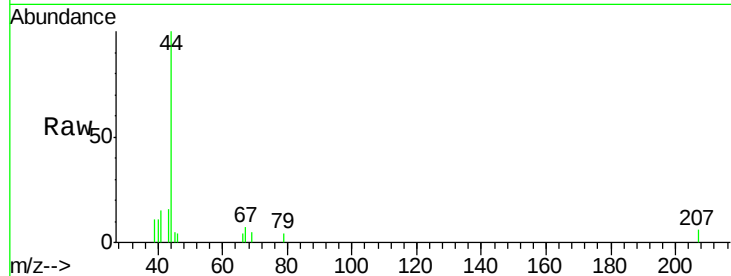
WC-07-011519RE

Tot Ion: 43 Resp: 750

Ion Ratio Lower Upper

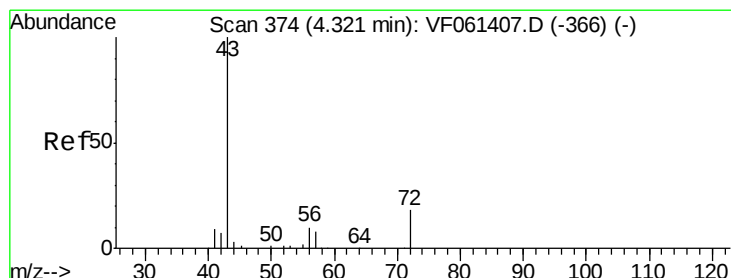
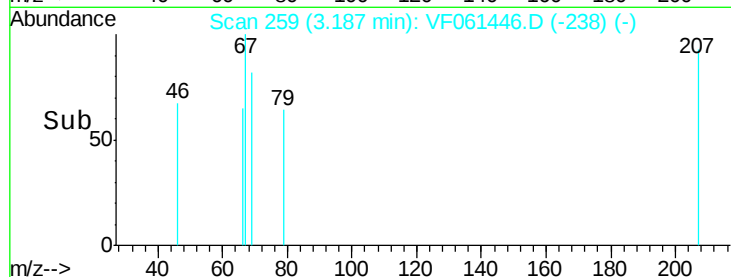
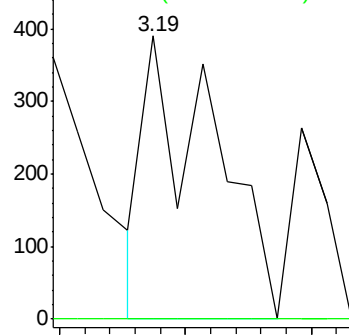
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.694 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061446.D

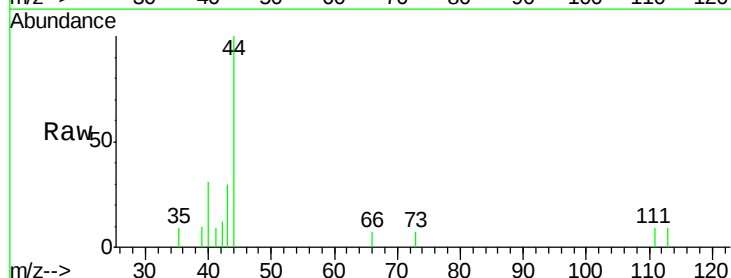
Acq: 17 Jan 2019 15:55

Tgt Ion: 43 Resp: 1139

Ion Ratio Lower Upper

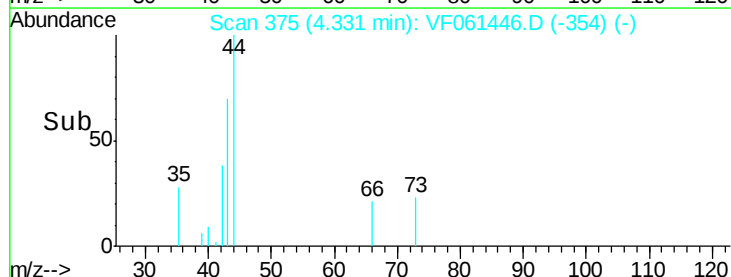
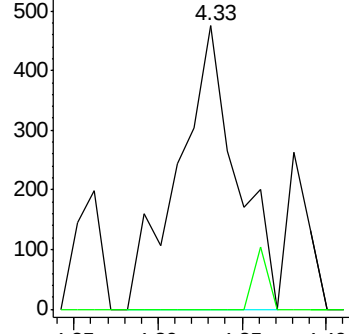
43 100

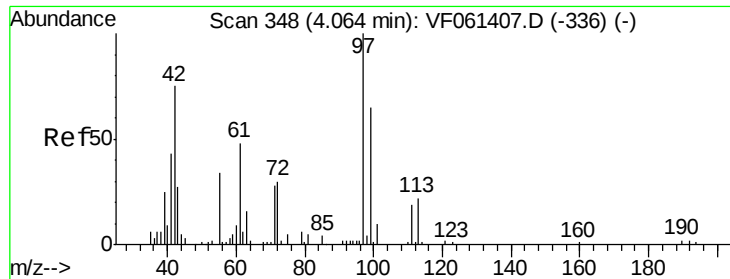
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.365 ug/l

RT: 4.05 min Scan# 346

Delta R.T. -0.02 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

Instrument :

MSVOA_F

ClientSampleId :

WC-07-011519RE

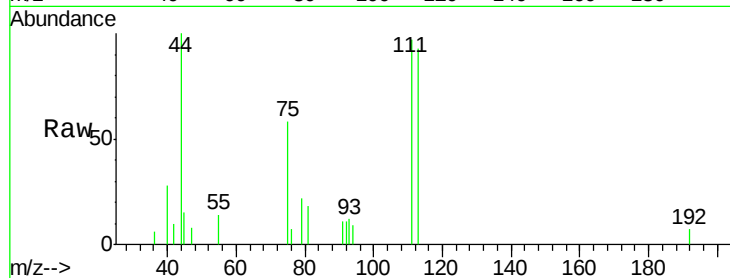
Tot Ion: 42 Resp: 395

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

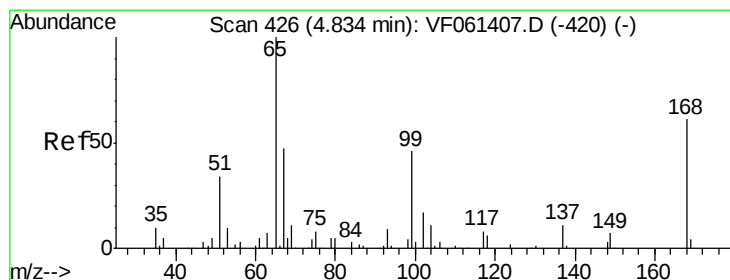
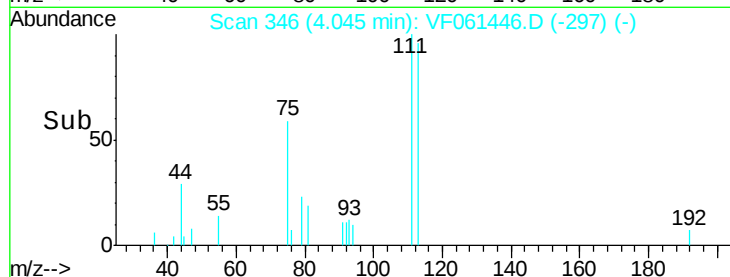
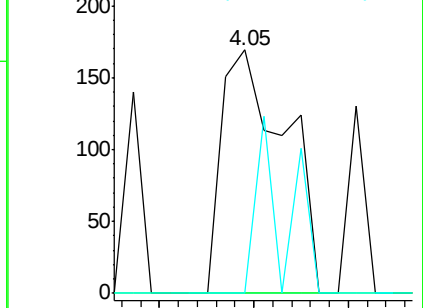
71 33.7 29.6 44.4



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 59.386 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.01 min

Lab File: VF061446.D

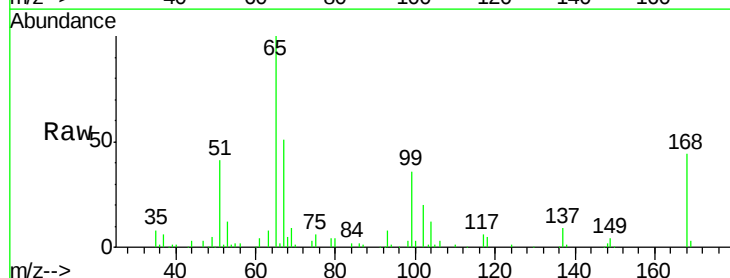
Acq: 17 Jan 2019 15:55

Tgt Ion: 65 Resp: 119656

Ion Ratio Lower Upper

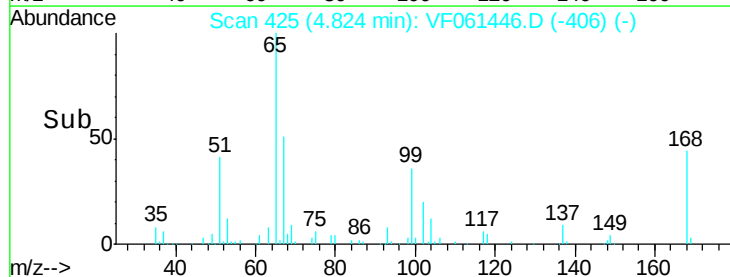
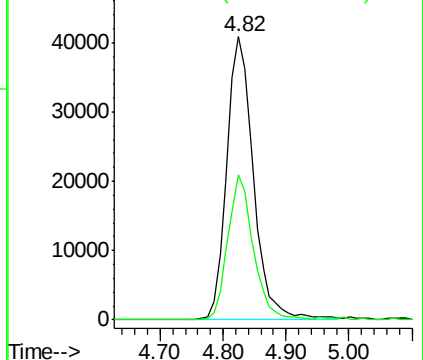
65 100

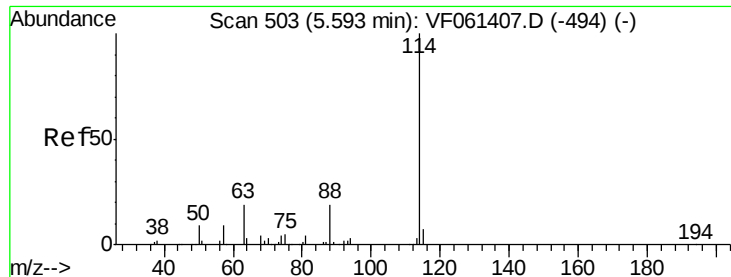
67 51.3 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

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WC-07-011519RE

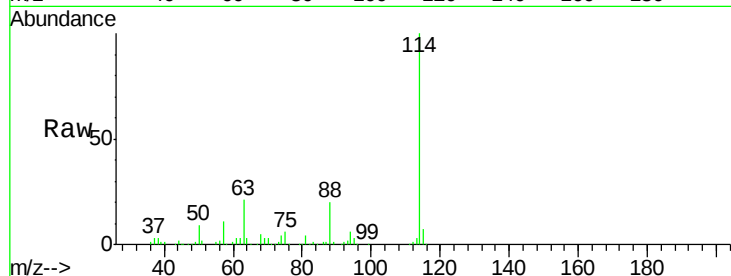
Tot Ion:114 Resp: 274089

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.0

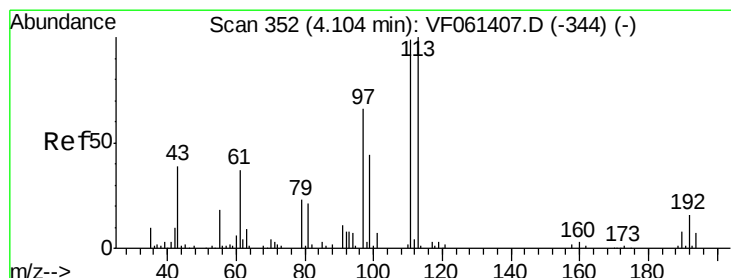
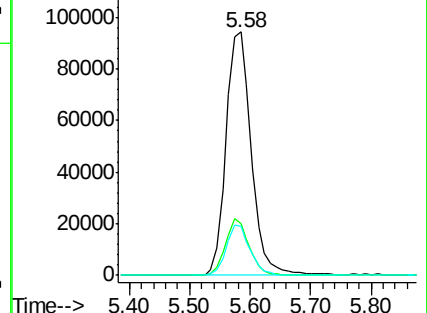
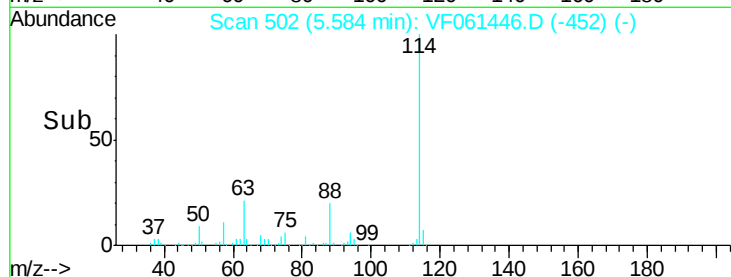
88 20.0 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 64.573 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

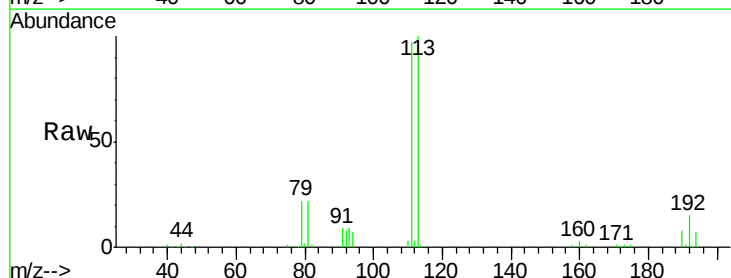
Tgt Ion:113 Resp: 139658

Ion Ratio Lower Upper

113 100

111 97.0 79.4 119.0

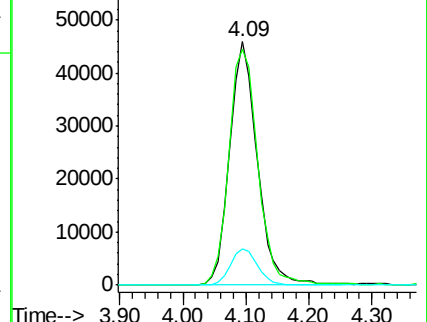
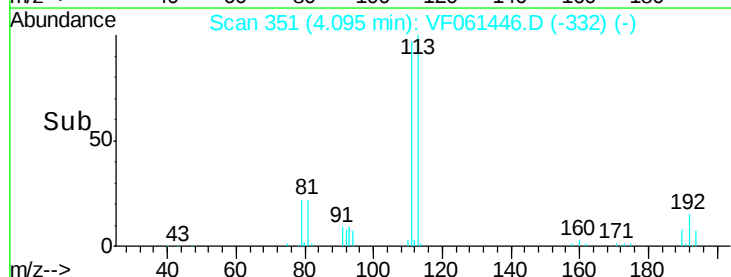
192 15.2 12.4 18.6

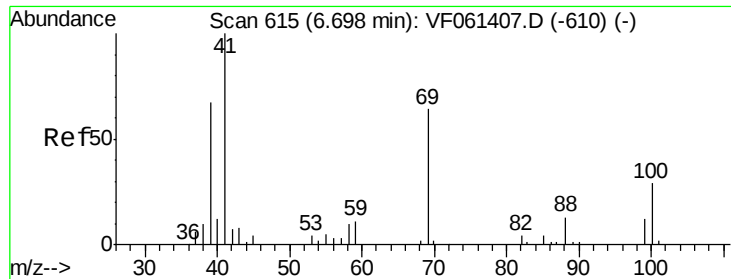


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.03 min Scan# 649

Delta R.T. 0.34 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

Instrument :

MSVOA_F

ClientSampleId :

WC-07-011519RE

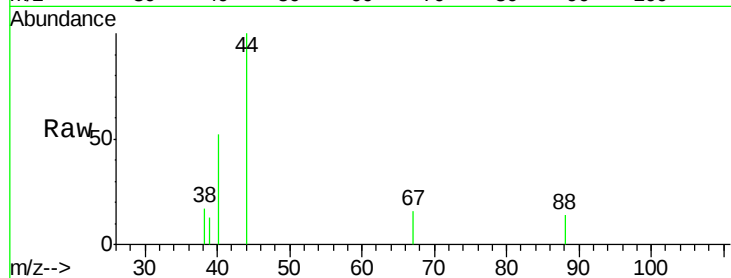
Tot Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

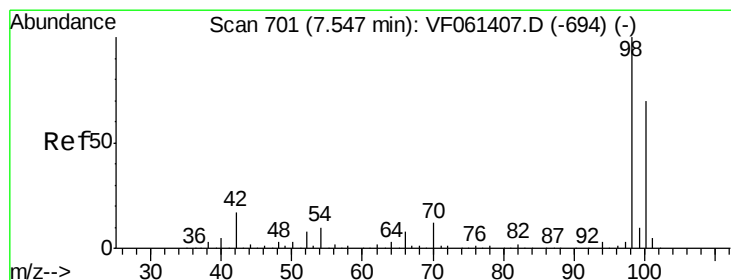
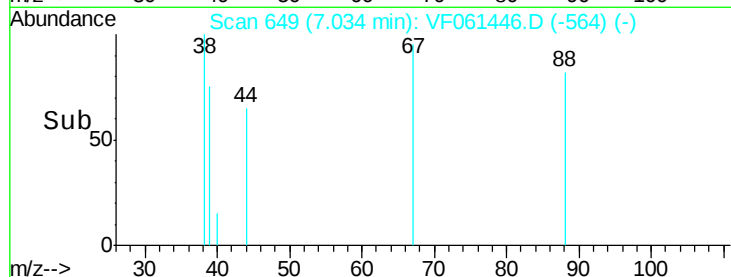
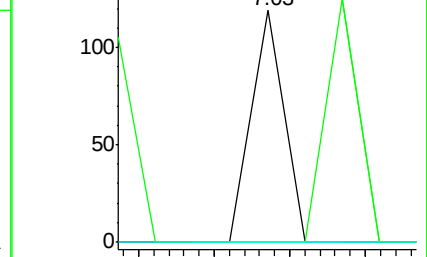
58 0.0 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 52.240 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.01 min

Lab File: VF061446.D

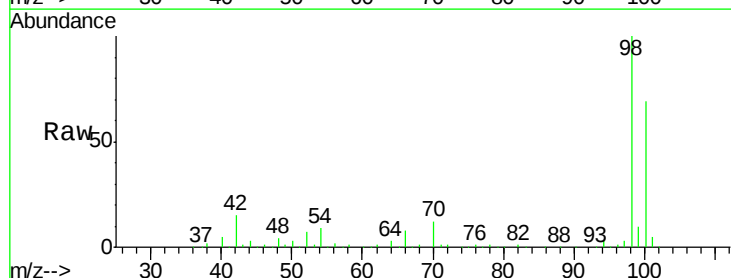
Acq: 17 Jan 2019 15:55

Tgt Ion: 98 Resp: 309555

Ion Ratio Lower Upper

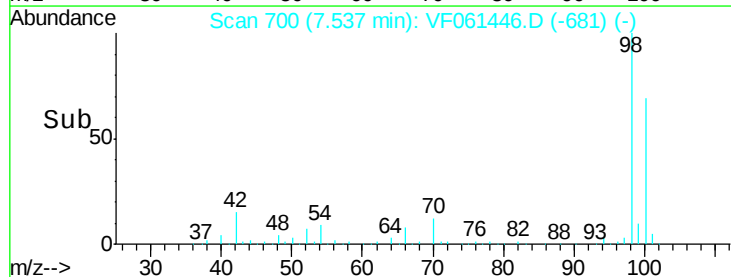
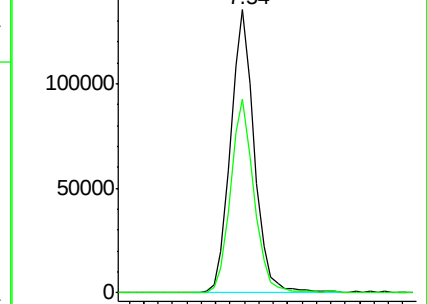
98 100

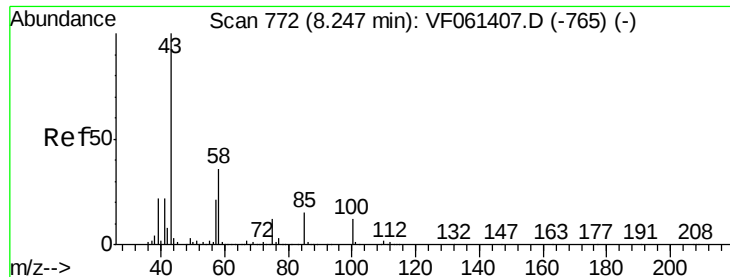
100 68.5 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.166 ug/l

RT: 8.25 min Scan# 772

Delta R.T. 0.00 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

Instrument :

MSVOA_F

ClientSampleId :

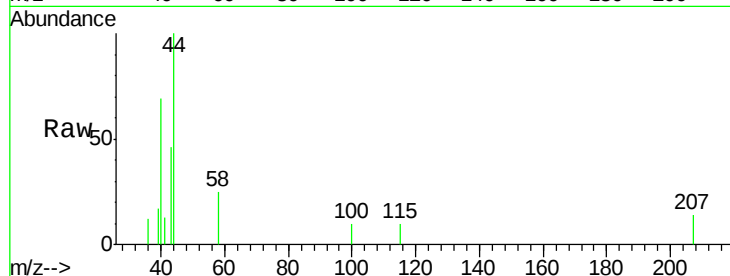
WC-07-011519RE

Tot Ion: 43 Resp: 1367

Ion Ratio Lower Upper

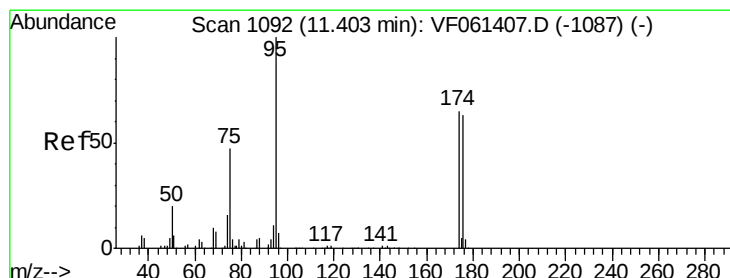
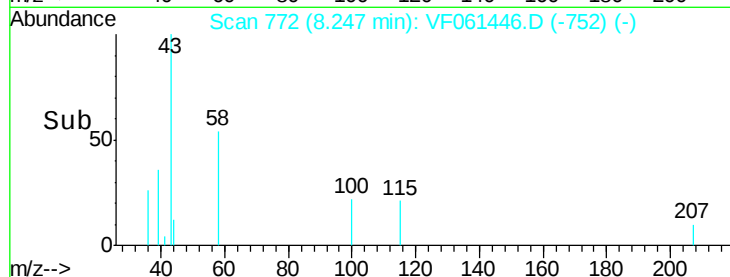
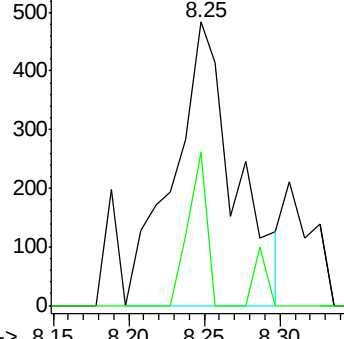
43 100

58 54.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 35.375 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF061446.D

Acq: 17 Jan 2019 15:55

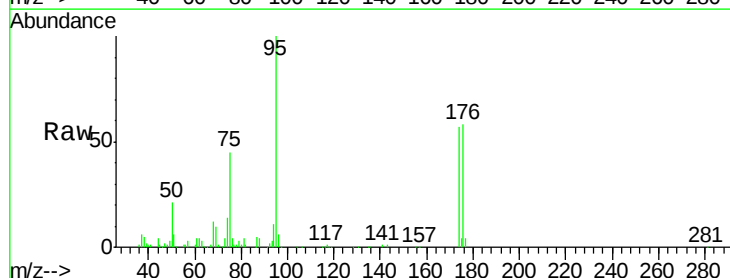
Tgt Ion: 95 Resp: 97942

Ion Ratio Lower Upper

95 100

174 57.0 0.0 130.4

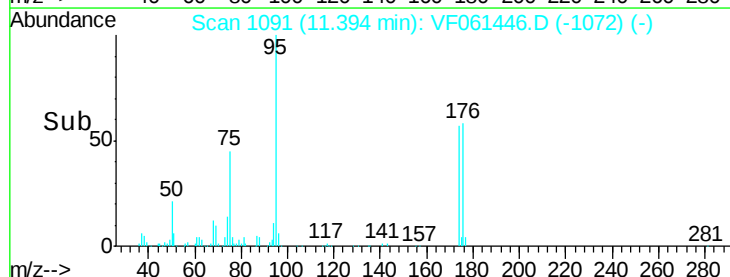
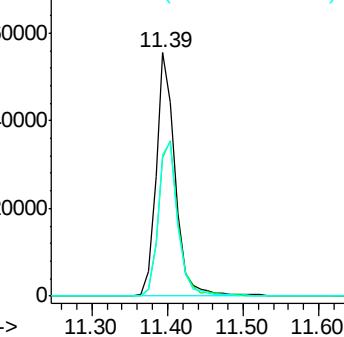
176 58.0 0.0 126.2

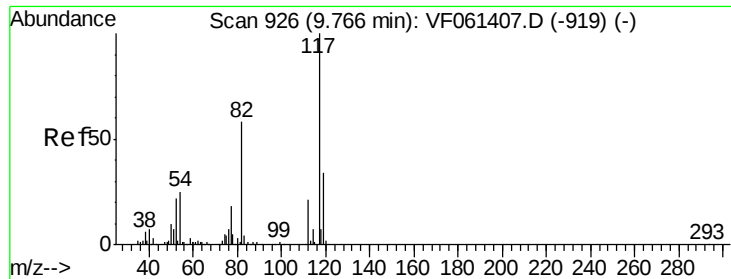


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

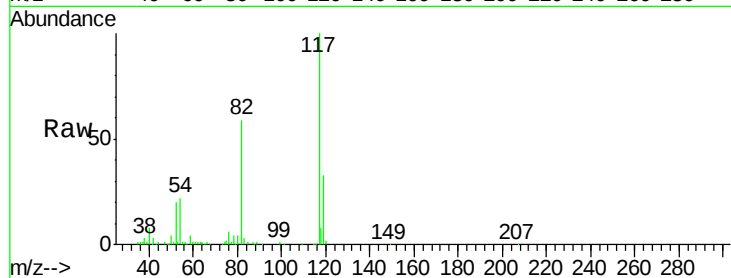




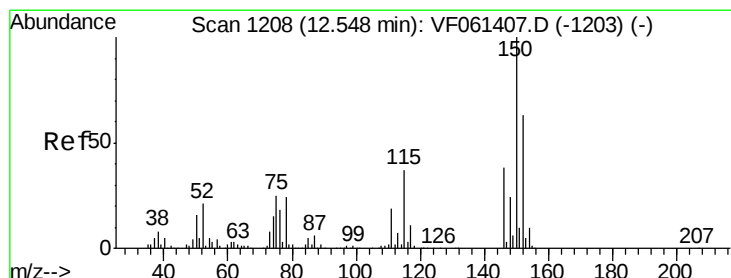
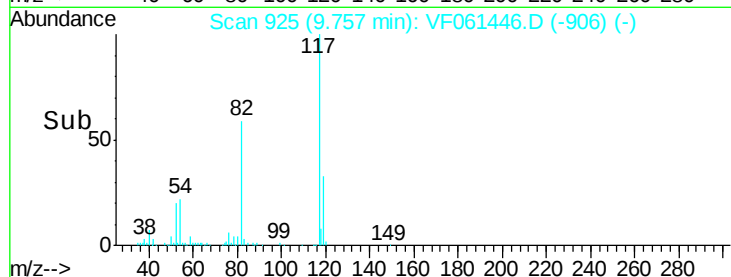
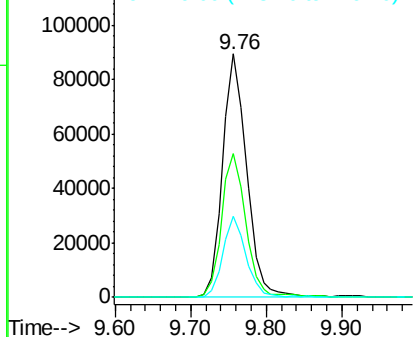
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 925
Delta R.T. -0.01 min
Lab File: VF061446.D
Acq: 17 Jan 2019 15:55

Instrument :
MSVOA_F
ClientSampleId :
WC-07-011519RE

Tot Ion:117 Resp: 198833
Ion Ratio Lower Upper
117 100
82 59.0 46.4 69.6
119 33.4 27.2 40.8

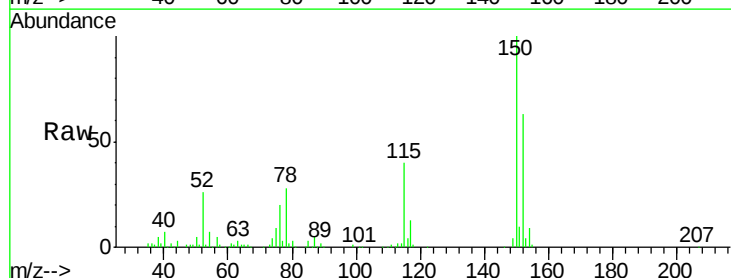


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

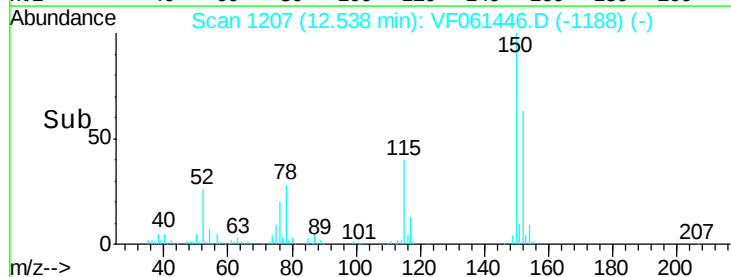
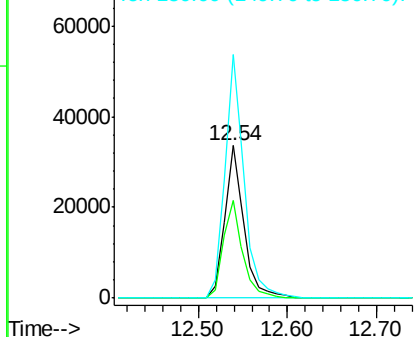


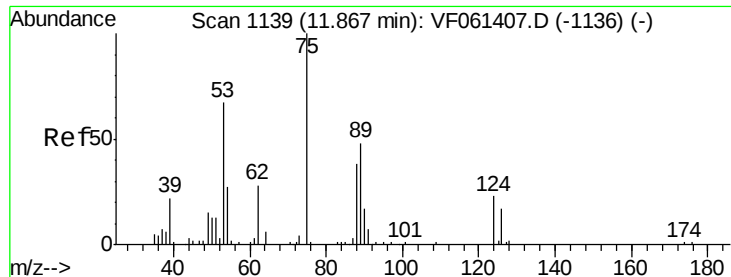
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF061446.D
Acq: 17 Jan 2019 15:55

Tgt Ion:152 Resp: 51575
Ion Ratio Lower Upper
152 100
115 63.7 30.0 90.0
150 159.7 0.0 321.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#81
 trans-1,4-Dichloro-2-butene
 Concen: 1.007 ug/l
 RT: 11.88 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VF061446.D
 Acq: 17 Jan 2019 15:55

Instrument :
 MSVOA_F
 ClientSampleId :
 WC-07-011519RE

Tot Ion: 75 Resp: 235
 Ion Ratio Lower Upper
 75 100
 53 75.9 57.8 86.6
 89 0.0 40.7 61.1#

